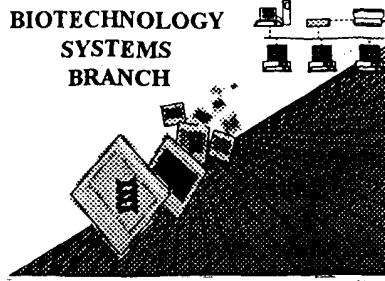


0280
0400

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/016,349
Source: OIPE
Date Processed by STIC: 1/3/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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O I P E

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002
TIME: 13:34:46

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J016349.raw

pp 1-3

Does Not Comply
Corrected Diskette Needed

5 <110> APPLICANT: Recipon, Herve
7 Sun, Yongming
9 Chen, Sei-Yu
11 Liu, Chenghua
13 Turner, Leah
17 <120> TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific
19 Genes and Proteins
23 <130> FILE REFERENCE: DEX-0243
27 <140> CURRENT APPLICATION NUMBER: US/10/016,349
29 <141> CURRENT FILING DATE: 2001-10-26
33 <150> PRIOR APPLICATION NUMBER: 60/243,259
35 <151> PRIOR FILING DATE: 2000-10-26
39 <160> NUMBER OF SEQ ID NOS: 244
43 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Ne

ERRORRED SEQUENCES

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002
TIME: 13:34:46

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J016349.raw

929 <211> LENGTH: 665
 931 <212> TYPE: DNA
 933 <213> ORGANISM: Homo sapiens
 937 <400> SEQUENCE: 17
 939 cacttacatc aacttcataa atgcagccaa tttacaataa acattccct tgcaacccct 60
 941 cctcccccac ccacccact ctacctgaaa agatggctaa ttatgttagg gccttgtgt 120
 943 ttcatttttatt tggtgtcaaa accccggcggg gtgttagctc taaaatgggg aaaaggctct 180
 945 gaggcgcagg ctttggctgt gaggggctgg aggtttgtg tgtgaagggg ggtagcctgc 240
 947 tggctctggag cacgctgata agatgctttt cttttcacag ggctctcctt agattcaaag 300
 949 actaaaaggg ctgactgaat cagaaaaaca aacagactttt ctttttctta taggcaaaga 360
 951 aagaaaatgaa tggtaggca ttatacagac acaagacccc gggtaccagt ggtatttgag 420
 953 tcaaagggtt cttttgttag tatttagcca ttcactggaa aagcacactt ccagcgcggg 480
 955 gacctggta ccatgagtga ctttggatc tcacccctggc ttggcttaaa tggaaagtct 540
 957 aattaatgct ttttataaga ttttggatc ttaagcttca accttgcagt tcattttatgt 600
 E--> 959 ttgttcattt tgatgnaaga attggcagat ttttaggtata tgatgcagtt tgatttttagt 660 item 9
 961 665
 2987 <210> SEQ ID NO: 64
 2989 <211> LENGTH: 311
 2991 <212> TYPE: DNA
 2993 <213> ORGANISM: Homo sapiens
 2997 <400> SEQUENCE: 64
 2999 gccaccgtgc ctggccaaaa aaaacacatg tcttatagtt gaggatggtt ctgtat 60
 3001 ttcatggcag agccctggag aacccgcagg ggaacagttt agggaaatgtt agaaggactc 120
 3003 ttgattctgg cacttaactc ctgtgtttac taatgtttt atagctggat tttttttt 180
 E--> 3005 tttggccatc ctagaaggcag gagagggcag agatagggac agacttgact tagcaaggc 240 item 9
 3007 ttaactgtta acattttca gcccagagag ctgccttgct ctctaaaaca gttacttg 300
 3009 ctggttca 311
 3415 <210> SEQ ID NO: 72
 3417 <211> LENGTH: 296
 3419 <212> TYPE: DNA
 3421 <213> ORGANISM: Homo sapiens
 3425 <400> SEQUENCE: 72
 3427 ctggattccc tcagacacat atttcccttc tcactaaact tttatgaaga ttttttatta 60
 3429 aatctgtatt aaaggtttac ttcccttatgt tgaagtaat gttcacagtt ggaccttatg 120
 E--> 3431 gagtattaag attacatttt atttcttgta acatttttgt ttgctgtttt ttcatthgc 180 item 9
 3433 ttcttatctg tgttcacata acaaattctg tgcataatgt gtttacacta tggcagaca 240
 3435 gatcaggtga ttgctcagtt ccattttctt ctggagact tttttaaaaa cctgtg 296
 3541 <210> SEQ ID NO: 74
 3543 <211> LENGTH: 330
 3545 <212> TYPE: DNA
 3547 <213> ORGANISM: Homo sapiens
 3551 <400> SEQUENCE: 74
 3553 ctgtgaaagt aaggttaatgt tgaacaagta aataatatt ttctctcctg gattctgtat 60
 3555 ttccatttgc ttccctgtttt cccatttcc ttatgtttt tggactttt ttggagatgg 120
 3557 agttccagca gttggaaatgt taatattctc ttatggataa agtagattaa aagtttaat 180
 3559 taaaatcacgc tgtaatgtt tgtaatgtt ctttgcgtac agtagtagta gtatactttg 240
 E--> 3561 anagttgag ttccataggc ttaacttttgg tggaaaact gaatactaac taaggacta 300 item 9
 E--> 3563 ttgaaatgtt agcttgcgtt cagaaagttac 330 item 9
 4159 <210> SEQ ID NO: 89

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002
TIME: 13:34:46

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J016349.raw

4161 <211> LENGTH: 125
4163 <212> TYPE: DNA
4165 <213> ORGANISM: Homo sapiens
4169 <400> SEQUENCE: 89
4171 gacaatttat aattcaaagg gaagcagaac ataaagattt ggacatttct tggccagcc 60
E--> 4173 atgtaaagaa tgaaaaagat ttggacaatt ttcatgtccag ccatgtaaag gntaaaaaaag 120
4175 tatgt 125) item 9

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002
TIME: 13:34:48

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J016349.raw

L:27 M:270 C: Current Application Number differs, Replaced Application Number
L:29 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:255 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:843 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:959 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:2335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:2659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002
TIME: 13:34:48

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J016349.raw

L:2967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:3005 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64
L:3277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3431 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72
L:3561 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
M:340 Repeated in SeqNo=74
L:4173 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:89
L:6295 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:139
L:6301 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:139
L:6451 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:143
L:6457 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:143
L:6597 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:146
L:6703 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:6721 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:6727 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:6799 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:150
L:7431 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:168
L:7437 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:168
L:7605 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:173
L:7707 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:174
L:7895 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:179
L:7907 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:179
L:7943 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:7949 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:7955 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:7961 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:8171 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:185
L:8291 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:188
L:8309 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:188
L:8377 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:190
L:8383 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:190
L:8449 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:192
L:8495 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:193
L:8841 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:203
L:8847 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:203
L:8881 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:204
L:8971 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:206
L:9031 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:207
L:9127 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:209
L:9269 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:213
L:9399 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:217
L:9889 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:229
L:9907 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:229
L:10373 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:241

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002

TIME: 13:34:48

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J016349.raw

L:10379 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:241

L:10385 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:241

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <i>10/016,349</i>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	